Understanding Diversity

Field Museum of Natural History 1989/1990 Biennial Report

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THE DIVERSITY OF LIFE IS EXTRAORDINARY. THERE ARE SAID TO BE A MILLION OR SO DIFFERENT KINDS OF LIVING ANIMALS, AND HUNDREDS OF THOUSANDS OF KINDS OF PLANTS.

BUT WE DON'T NEED TO THINK OF THE WORLD AT LARGE. IT IS AMAZING ENOUGH TO STOP AND LOOK AT A FOREST OR AT A MEADOW — AT THE GRASS AND TREES AND CATERPILLARS AND HAWKS AND DEER.

HOW DID ALL OF THESE DIFFERENT KINDS OF THINGS COME ABOUT; WHAT FORCES GOVERNED THEIR EVOLUTION; WHAT FORCES MAINTAIN THEIR NUMBERS AND DETERMINE THEIR SURVIVAL OR EXTINCTION; WHAT ARE THEIR RELATIONS TO EACH OTHER AND TO THE PHYSICAL ENVIRONMENT IN WHICH THEY LIVE?

THESE ARE THE PROBLEMS OF NATURAL HISTORY, PROBLEMS THAT CONCERN OURSELVES AS ANIMALS AND THAT CONCERN US EVEN MORE AS ORIGINATORS OF THIS THING CALLED CIVILIZATION — WHICH IS, AFTER ALL, MERELY A RATHER SPECIAL SORT OF AN ANIMAL COMMUNITY.

MARSTON BATES, *THE NATURE OF NATURAL HISTORY*

Charles Scribner's Sons, 1950. Reprinted by Princeton University Press, 1990.
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INTRODUCTION

Every large organization lives with a verbal shorthand that compresses complex ideas or experience into a word or phrase. This seems inevitable, and the Field Museum is no exception to the rule. What should not be inevitable is that we fail to explain ourselves when we communicate with our friends.

Among the Museum's most pervasive buzzwords are *systematics* and *cultural understanding.* Between them, they represent a large part of what we are about as an institution — the kind of research we do and the ethos that governs our educational work. In this report we've tried to illuminate those concepts. I hope that through them readers will gain a better understanding of the special role the Museum plays in basic science, environmental education, and human relations.

As I conclude my term as chairman of the Museum's Board of Trustees, I want to thank my colleagues, the Museum staff and volunteers, the Chicago Park District, and our public, corporate, and individual donors for helping prepare the ground for the Museum's second century.

In this regard, I should call attention to one fact that pops out of the financial figures in this report. In 1990, unrestricted contributions by individuals and family foundations increased 33 percent over 1989, and represented 65 percent of total unrestricted giving, up from 55 percent in previous years. Despite the recession, total unrestricted giving increased by 11 percent, to more than $2 million. These increases reflect not so much larger individual contributions as a large increase in the number of contributors. That is a happy development, not least because it creates a new base from which to build even larger constituencies in the future.

Robert A. Pritzker, Chairman, Board of Trustees

THE OBJECTS OF OUR AFFECTION

Pictured in this report are a few dozen of the nearly 20 million natural history specimens and cultural artifacts in the Field Museum collections, along with a very few of the staff members, volunteers, contributors, and visitors who make these inert objects come alive.

Robert A. Pritzker, Chairman of the Board of Trustees, photographed in the Nile marsh section of the "Inside Ancient Egypt" exhibit.

'Systematics' and 'Cultural Understanding' — Between Them, These Words Represent a Large Part of What We Are About As an Institution

Opposite: An Egyptian mortuary cloth depicting the goddess Osiris. Above right: a bronze mirror with a handle in the shape of a woman holding a papyrus blossom over her head. Both objects were collected by Edward E. Ayer in 1895.

Botanist Michael O. Dillon, photographed in the Botany Department light well amidst newly described Peruvian flora.

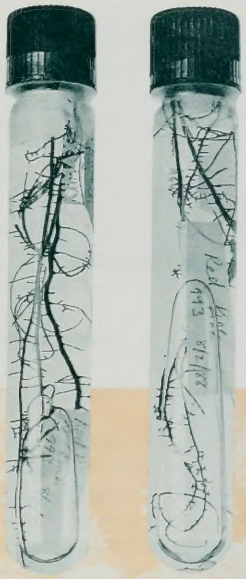
Investigating Diversity in the Neotropics: Fungi, Fishes, Relict Forests, the Advance of the Angiosperms, the Family Life of the Blackbirds, and the Rise of Tiwanaku

Inset: *Jalcophila peruviana*, a new genus and species of the sunflower family, Asteraceae, found by Michael O. Dillon in the Andes of northern Peru. (Illustration by Peruvian professor Segundo Leiva Gonzáles.)
Background: *Azorella compacta*, an Andean cushion plant of the carrot family, Umbelliferae.

When Field Museum scientists are "in the field," that could mean Borneo or Iowa or Kenya, or any of numerous other locations around the world. But chances of bumping into a curator are highest in the New World, between latitudes 23.5° north and 23.5° south: the neotropics.

No doubt there are many idiosyncratic reasons why one-third of the Museum's curators — a dozen Ph.D.s with as many different research interests — have chosen to work in this region. The most important reasons, however, have to do with institutional tradition and commitments (the Museum's Flora of Peru project, for example, has been the work of generations of curators since 1921), and the extreme diversity of tropical environments that so excites museum people. *[See page 7.]*

Within this relatively small area of Central America and northern South America, Field Museum curators have in recent years been able to study the effect of ocean currents on desert vegetation *[page 10]* and, not far away, the ecological associations of small mammals in Andean rain forests. They have catalogued the 400 species of the coffee family in Costa Rica, among other floras and faunas, and have been mapping the variation among the thousands of species of tetras in the tropical freshwater streams of Venezuela. On the shores of Lake Titicaca, they are unearthing the succession of cultures that led to the rise and ultimate demise of one of the earliest empires in the Americas. In the Peruvian highlands, they have demonstrated the independent evolution of birds confined to mountain peaks above the clouds.



Above: test tubes containing pine roots inoculated with mushroom cultures to form the symbiotic relationship known as mycorrhizae. Background: a scanning electron microscope image of the spores of *Laccaria tortilus*, magnified 1,000 times.

These and other Field Museum research projects are in most outward respects quite traditional. Curators find, collect, sort, describe, classify, and preserve the objects of their

attention. But armed with computers, the techniques of molecular genetics, analytical tools like "phenetics" and "cladistics," and machines like the scanning electron microscope and the superconducting cryogenic magnetometer, contemporary museum-based scientists can often ask more difficult questions of their data than their predecessors could. And frequently nowadays, especially in the tropics, their data and analyses have high utilitarian value for conservation and development.

Botanist Gregory M. Mueller, for example, has as one of his research projects a survey of the mushrooms in the oak forests of Costa Rica, and he and his colleagues have collected more than 2,500 specimens. These are being subjected to several different laboratory tests, including electron microscopy, so they can be assigned a genus and species, their relationships assessed, and information on their life histories obtained. Cultures of some of these mushrooms are also being amassed so they can be grown next to Costa Rican oak seedlings to learn which are potentially able to form a specialized symbiosis. Oaks and mushrooms form joint underground structures called mycorrhizae on which both are dependent, but the known pairings have been worked out for some temperate forests, not tropical ones. Foresters in Central and South America have been replacing stands of native oaks with foreign species, a practice that could lead to problems — plantations of foreign trees do not support the diversity of native insects, birds, and other animals and plants that complex native forests do. Mueller's research will help enable the industry to develop reforestation technology that does not upset local ecosystems.

Brycon falcatus, a South American tetra collected by Barry Chernoff.

In Ecuador, Peter R. Crane, chairman of the Department of Geology, has found remarkably well preserved fossil plants. Similar assemblages have been found in Virginia and Portugal and include minuscule flowers that still contain pollen grains.

Under the scanning electron microscope, these hundred-million-year-old fossils have unlocked many of the mysteries in the reproductive biology of basal angiosperms — the primitive flowering plants. Moreover, studying the pollen preserved within the flowers enables Crane and his Field Museum colleague Scott Lidgard to interpret with greater confidence the data in their imposing study of the rise of the flowering plants, which is based on analysis of fossil pollen data from many parts of the world. To their own surprise, they discovered that between 120 million and 80 million years ago (the mid-Cretaceous period), during the time the present continents and oceans were taking shape, the flowering plants and their nearest relatives, the Gnetales, began to diversify rapidly in equatorial regions and to spread to higher latitudes. But soon the Gnetales died off, perhaps vanquished by the preadaptive power of the flowering plant, which subsequently came to dominate every terrestrial ecosystem except the high-elevation or high-latitude spruce and pine forests. This news, and the analytical methods employed by Crane and Lidgard, have attracted wide interest, including in the oil industry — much of the world's oil is found in mid-Cretaceous rock. Funding from the Petroleum Research Fund of the American Chemical Society will support

Below and background: Scanning electron microscope images of fossil pollen grains about 100,000,000 years old.

Systematics

The kind of work that most Field Museum scientists do is called systematics — a word that is not in the vocabulary even of many well-educated people. Paleobotanist Peter Crane, chairman of the Museum's Department of Geology, defines systematics as the science of "documenting and understanding the relationships between organisms." At a basic level, this means collecting, describing, and sorting the plants and animals of a given place. Cartoon images of butterfly hunters in pith helmets aside, systematics is the foundation on which all other study of life on earth is constructed. As a practical matter, such studies are essential in conservation and environmental planning, and in any consideration of evolution.

Beyond this, systematists may take a group of related organisms (the New World blackbirds, for instance, or the tropical fresh-water tetras) and seek to understand it in detail — its subdivisions, geographic distribution, patterns of behavior, ecological relationships, evolutionary history. The greater the diversity in a place or in a group of organisms, the greater the challenge of understanding its forms and relationships.

At yet another level of investigation, systematists may try to understand the processes at work in the patterns of relationship they have discerned — the biochemistry of evolution, say, or the mathematics of shape and size change.

Above: *Icterus galbula bullocki*, a common North American oriole. The 24 oriole species are descendants of one of the oldest lineages within the family of New World blackbirds. Background: DNA sequence of *Icterus galbula bullocki* was used to determine the evolutionary relationships of orioles.

further research by Crane and Lidgard that will expand their database geographically over a longer time span and provide new insight into the long-term interactions of vegetation and climate in the history of our planet.

Bosque Monteseco, in northwestern Peru, is one of several remnants of a vast forest that 30,000 years ago stretched through what are now Ecuador and Colombia as well as Peru. Field Museum botanist Michael O. Dillon, with American and Peruvian colleagues and students, has been surveying the forest as part of the Flora of Peru project. In isolation, many of the plants and animals there have evolved into new species that are found nowhere on earth except these 6,000 acres. Because the forest is in the path of agricultural development, the researchers have been working with the local schools to develop science-education programs in hopes that a new generation will come to appreciate and protect natural diversity.

Fish are a lot quicker than land animals to change their physical characteristics to accommodate environmental change. In an effort to better understand the process at work, zoologist Barry Chernoff studies two groups of fishes — the silversides, whose several dozen species inhabit a wide variety of ecosystems throughout the Americas, and the tetras, whose several thousand species are confined to tropical freshwater streams. These tropical waters, however, offer a multitude of mini-environments through which to trace the fishes' changing features. Chernoff is interested in exploring mathematical aspects of evolutionary change, and in the theoretical question of how much change makes a "species." But in the Orinoco Basin of Venezuela, where deforestation and channelization are destroying habitat at a rapid pace, the most pressing research priority is simply to identify previously undescribed species before they are gone.

Scott M. Lanyon, chairman of the Department of Zoology, is another frequent visitor in the neotropics, where he has done collecting, conservation consulting, and

Opposite: Inca plates, ca. 1400 A.D., from the Emilio Montez collection acquired by the Museum in 1893.

research in his own specialty, the New World blackbirds — the redwings, grackles, meadowlarks, bobolinks, orioles, and other songbirds. Despite the blackbirds' familiarity as a group, not much is known about how the 97 species are related to one another, and Lanyon is using the techniques of molecular biology in an effort to construct the family tree. Lanyon is principally interested in studying the evolution of mating and nesting behaviors, including plumage and song, which among the blackbirds are both extremely varied and highly unusual. Birds typically pair for a season, males and females often look alike, they tend to be territorial and to have a species-specific song. But blackbird species may exhibit sexual promiscuity, males and females may be of sharply different size and color, they often mimic other birds' songs, and may tolerate dozens of nests in one tree, among other odd behaviors. Lanyon hopes to be able to plot these morphological and behavioral characteristics against the family tree derived from DNA studies, to suggest how and why one led to another.

Lest we forget, human beings are also a result of natural history, and their group behaviors — cultures — while not genetically determined, have patterns and processes of change that museum-based researchers can study by means of systematic collections. Thirteen thousand feet up in the Andes, during the reign of Caesar Augustus in Rome and for a thousand years after, the city of Tiwanaku ruled an immense empire that was built on the surplus provided by a remarkably sophisticated agricultural technology. The system of terraced fields, naturally irrigated and insulated against the cold Andean nights, had been developed during the preceding 1,000 years by a succession of village cultures around Lake Titicaca. Field Museum archaeologist Charles Stanish has begun a ten-year project to investigate the origins of the agricultural technology

The Biochem Labs

The Biochemical Laboratories, a Museum research facility, produced its first DNA sequence data in 1990, obtained by using a recent technological innovation known as the polymerase chain reaction (PCR). The technique permits genetic analysis of DNA extracted from small pieces of tissue, including dried or alcohol-preserved tissues. In a rare instance, the Lab was able to sequence DNA from a 20,000-year-old leaf fossil. Major projects have involved analysis of the evolutionary and biogeographic relationships among blackbirds (Scott Lanyon) and South American fruit bats (Bruce Patterson).

and development of political systems that culminated in the long reign of Tiwanaku, and its decline before the rise of the Inca about 1450 A.D. With teams of U.S. and Peruvian students, he has so far uncovered 450 new archaeological sites that reveal evidence of six different cultures. There is some hope that the amazingly productive terraced agriculture can be reintroduced by the current residents of the area, the Aymara Indians.❖

The Love of El Niño, and the Fear of Goats

It hardly ever rains in the coastal deserts of Peru and Chile. Life is sustained there by seasonal fogs from which plants condense moisture. Even a few species of bromeliads endure the spare environment, like their neighbors, by condensing moisture on their leaves and roots, while their numerous relatives in wetter climates collect water in specialized leaf bases that form a tank. These tanks provide aquatic environments capable of sustaining other organisms such as small frogs, snails, or insects.

But Field Museum botanist Michael O. Dillon, on a collecting trip in the Chilean Atacama Desert, found some bromeliads over three feet tall growing on a steep cliff about a thousand feet above sea level. The site was inaccessible; Dillon had to use a rope lasso to bring one down — and was surprised to receive a small shower when the plant was uprooted! It proved to be a previously undescribed species that had managed to retain a functioning tank in the desert. All individuals in the area contained substantial amounts of water, some as much as a pint, even though there had been no rain for more than a year. In the desert, that much water makes a tempting target for any herbivore.

Dillon has concluded that the plant is most closely related not to nearby species but to bromeliads of the genus *Tillandsia* that grow in tropical savannas and cloud forests from

Colombia to Peru. He estimates that there are fewer than 200 scattered individuals of the new species, which has managed to survive only by clinging to cliff faces where neither the domesticated nor the wild goats that graze in the area can get at it. Dillon named the species *Tillandsia tragophoba* — from the Greek *tragos*, goat, and *phobos*, fear — in an effort, he wrote in a journal of the New York Botanical Garden, "to call attention to the rapid and continuing destruction of natural vegetation by grazing animals," a problem now being addressed by the Chilean conservation authorities.

Foraging livestock had been a concern of Dillon's since 1983, when he was in the Peruvian Desert at the time of the El Niño phenomenon, a periodic ocean-atmosphere event which that year was perhaps the strongest in history; among other climatic effects, it produced the first major rains in the desert since 1925. Dillon's principal work has been in Peru, where he is continuing a Field Museum project — begun decades before he was born — to catalog all the plants in that extremely diverse country. During the 1983 El Niño, as he drove down the Peruvian coast, he was startled to see the desert blooming with unusual plants whose seeds, apparently, had lain dormant for decades. Such insular, opportunistic plant communities would be interesting in themselves and good subjects for the study of evolution. A few months later, when Dillon returned to the area to do further research, he found that ranchers in the mountains had driven their cattle down to the coast to forage amid the new vegetation, and it was now severely disturbed or destroyed.

Subsequent El Niño events and a freak rainstorm in northern Chile in July 1987 have reinvigorated the desert's vegetation and stimulated research. The result will be an exhaustive survey and computer analysis of desert fog-dependent plant communities in Peru and Chile that in turn — given the periodic return of El Niño — will provide baseline data for the study of global warming.❖

Computer Services

Computerization of the Museum's research, collections management, exhibit, and administrative functions has accelerated in recent years and is poised for expansion and upgrading. Currently, in the scientific departments, a DEC VAX 11/785 running the Unix 5.3 operating system is connected to more than 120 personal computers and a wide range of peripherals. Upgrading is planned to add image-processing applications, to increase connectivity within the Museum and between its departments, and to permit networking with other research and educational institutions.

Left: *Tillandsia tragophoba*, a new cliff-dwelling bromeliad of the Chilean Atacama Desert. A blossom of *T. tragophoba*. (Illustrations by Marlene Werner.) Background: *Trixis mo*
species of the sunflower family, Asteraceae, found by Dillon in the Peruvian r

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Eighty-Six New Members

Eighty-six new members joined the Founders' Council in 1989-90, bringing the total to 340. The Council's Award of Merit, recognizing significant contributions to the study of natural history, was presented to Harvard University biologist Edward O. Wilson. Previous recipients include Sir David Attenborough, the documentary film maker, Roger Tory Peterson, the wildlife artist, and Stephen Jay Gould, the essayist. In 1990, Laura and Marshall Front succeeded John B. Judkins, Jr. to the Council's chair.

Individual Founders' Council members annually contribute $1,500 or more in unrestricted gifts or gifts to other special funds; give a single or accumulated gift of $25,000 or more for permanent membership; make a deferred gift of $50,000 or more; or make a gift of a major collection.

Corporate and foundation members of the Founders' Council annually contribute $5,000 or more in unrestricted gifts.

From the Field Museum Library: Snake Foot, a figure from *Vipera Pythia*, a treatise on venomous snakes by Marcus Aurelius Severini (1580–1656), published in1651.

New Visitor Marketing

The Museum launched an aggressive visitor marketing plan in 1989 and 1990 through the Public Relations Department with the assistance of Leo Burnett U.S.A., a top advertising agency. A new marketing theme, "Field Museum – The Smart Way to Have Fun," inspires an integrated program of publicity, promotions, and advertising that has helped the Museum exceed attendance and revenue goals both years. New corporate marketing partnerships with United Airlines, American Express Travel Services, Pizza Hut, McDonald's, KLM Royal Dutch Airlines, top Chicago hotels, major radio stations and retailers enhance promotional activities.

From the Field Museum Library: Anthropomorphic rendering of a mandrake root, from *Gart der Gesundtheit,* an herbal pharmacopoeia compiled by Joannes de Cuba and published in Augsburg in 1486 — the oldest printed book in the collection.

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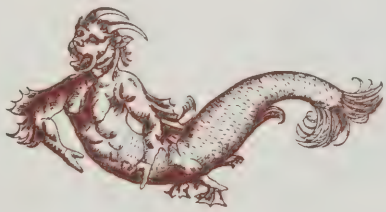
In 1989, four new support groups were organized to encourage and recognize, with additional membership benefits, those who donate funds to the Museum beyond basic membership. These are the Field Contributors ($100-$249), Field Adventurers ($250-$499), Field Naturalists ($500-$999), and Field Explorers ($1,000-$1,499). Members of these groups are listed in the publication "Field Museum Donor Groups." Donors of $1,500 or more annually are named to the Founders' Council.



From the Field Museum Library: Sea creature from Konrad Gesner's *Fischbuch*, published in Zurich in 1575.

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From the Field Museum Library: Frontispiece from *Ricreatione dell'occhio,* a treatise on sea shells published in 1681 by Filippo Buonanni (1638–1725).

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Under the leadership of Presidents Mrs. James J. O'Connor (1989) and Mrs. Howard J. Trienens (1990) the Women's Board raised $700,000 for general support of the Museum's activities. Each year the Board provides an elegant setting to preview the Museum's latest exhibit renovation. The Pacific exhibit was celebrated at two Fall galas: "One Enchanted Evening," chaired by Mrs. Thomas J. Eyerman with United Airlines as underwriter; and "Jewels of the Pacific," chaired by Mrs. John M. Richman with underwriting from Kraft, Inc. The Christmas Tea, attended each year by some 1,500 children, was chaired in 1989 by Mrs. Howard M. Dean, Jr. and in 1990 by Mrs. Andrew McKenna. Thirty-seven members volunteer for the Ambassador Program, founded in 1990, to greet the public and to enrich their visits to the Museum.

From the Field Museum Library: The "bishop fish," from *Libri de Piscibus Marinus,* published in 1554 by Guillaume Rondelet (1507–1566).

Special-Interest Support Groups

The Friends of Field Museum Library was organized in 1990 to promote interest in and support for the Library and its programs of book and journal acquisition, collection and preservation, and exhibition and publication. Under the chairmanship of Mrs. T. Stanton Armour, a member of the Museum's Board of Trustees, the group has launched a newsletter, Gatherings, *and sponsored the acquisition of several rare books, including Richard Bradley's* A Philosophical Account of the Works of Nature, *published in London in 1721. Other special-interest groups are the Friends of Ruatepupuke II, the Maori meeting house now undergoing renovation on the Ground Floor, and the Outreach Council, formerly known as the Public Programs Support Group, which aids the Museum's community outreach program.*

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From the Field Museum Library: Fishpersons. from *Historiae Naturalis de Piscibus et Cetis* by Joannes Jonstonus (1603–1675), published in Amsterdam in 1657.

Rice Foundation Leads Donors 'Into the Wild'

With a pathbreaking gift that will total $5 million, the Daniel F. and Ada L. Rice Foundation has led the Museum "Into the Wild" — a new thematic exhibit, subtitled "Animals, Trails & Tales," on the world's animals and their environments.

Many contributors large and small have come forth eagerly to support this major mounting of the Museum's zoology collections. Among them: The National Science Foundation made its largest grant ever for a museum exhibit ($1.2 million), and the members of the Windy City Grotto chapter of the National Speleological Society (cave explorers) put together $1,000 and no little expertise to help redeem the reputation of the much-maligned bats.

Mr. and Mrs. Brooks McCormick contributed funds for a diorama on wild turkeys, and Mrs. R. Winfield Ellis for the stunning installation of Carl Akeley's famous "Four Seasons" diorama. Franklin J. Lunding pledged a gift in memory of his wife, Virginia, for the passenger pigeon diorama, and Gaylord and Dorothy Donnelley to support a new interactive exhibit on natural areas around Chicago.

The Ronald McDonald Children's Charities donated $150,000 to help enhance the exhibit as a family experience, and the W.K. Kellogg Foundation gave $1.4 million for exhibit construction and educational programming.

The exhibit, including a Nature Walk that will take visitors from Chicago to Alaska and to South America, opens in November 1991 in the first-floor west halls, which will now be known as the Daniel F. and Ada L. Rice Wing.❖

Statements of Assets, Liabilities and Fund Balances
December 31, 1990 and 1989

	Current Operating Fund		Fund Designated For Special Purposes		Fund Functioning As Endowment	
	1990	1989	1990	1989	1990	1989
Assets						
Cash	$952,516	$1,172,748				
Interest and Dividends Receivable	32,000	14,000			$533,000	$533,000
Pledges Receivable	309,750	25,250			100,000	150,000
Museum Stores Inventory	1,354,884	1,471,134				
Investments	3,915,860	1,992,086			53,828,200	54,026,689
Prepaid Pension Cost	571,110	467,121				
Deferred Note Issuance Costs						
Other Assets	566,919	602,981				
Museum Properties, Net						
Collections						
	$7,703,039	$5,745,320			$54,461,200	$54,709,689
Liabilities and Fund Balances						
Accounts Payable	$1,164,707	$1,372,940				
Accrued Liabilites	978,735	899,720				
Deferred Revenue						
Contributions						
Other	146,162	161,754				
Notes Payable						
Due To (From) Other Funds	4,057,581	1,980,052	($4,158,591)	($3,311,232)		
Total Liabilities	6,347,185	4,414,466	(4,158,591)	(3,311,232)		
Fund Balance	1,355,854	1,330,854	4,158,591	3,311,232	54,461,200	54,709,689
	$7,703,039	$5,745,320			$54,461,200	$54,709,689

Current Operating Fund, Fund Designated for Special Purposes and Fund Functioning as Endowment are Unrestricted Funds.

Museum Property Fund		Restricted Fund		Endowment Fund		Total All Funds	
1990	1989	1990	1989	1990	1989	1990	1989
						$952,516	$1,172,748
$846,090	$281,490			$167,000	$167,000	1,578,090	995,490
891,667	2,574,866	$734,000	$5,000	150,000		2,185,417	2,755,116
						1,354,884	1,471,134
38,800,938	18,279,980			17,526,519	16,889,660	114,071,517	91,188,415
						571,110	467,121
789,520	356,578					789,520	356,578
350,000		247,886	264,582			1,164,805	867,563
48,010,462	46,505,192					48,010,462	46,505,192
1	1					1	1
$89,688,678	**$67,998,107**	**$981,886**	**$269,582**	**$17,843,519**	**$17,056,660**	**$170,678,322**	**$145,779,358**
						$1,164,707	$1,372,940
$230,726	$70,396					1,209,461	970,116
		$10,958,120	$7,129,132			10,958,120	7,129,132
		313,143	43,548			459,305	205,302
31,300,000	13,000,000					31,300,000	13,000,000
10,390,387	8,234,278	(10,289,377)	(6,903,098)				
41,921,113	21,304,674	981,886	269,582			45,091,593	22,677,490
47,767,565	46,693,433			17,843,519	17,056,660	125,586,729	123,101,868
$89,688,678	**$67,998,107**	**$981,886**	**$269,582**	**$17,843,519**	**$17,056,660**	**$170,678,322**	**$145,779,358**

Statements of Revenues, Expenses and Changes in Fund Balances
Years Ended December 31, 1990 and 1989

	Current Operating Fund		Fund Designated for Special Purposes		Fund Functioning As Endowment	
	1990	1989	1990	1989	1990	1989
Revenues:						
Chicago Park District Property Tax Collections	$6,660,554	$5,585,944				
Government Grants	532,846	499,392				
Interest & Dividend Income	2,972,946	3,310,228	$98,709			
Net Realized Gain (Loss) on Investments Sold		103,561			($782,907)	$2,263,062
Contributions	2,253,005	1,706,463			494,316	706,222
Memberships	557,514	510,634				
Admissions	2,094,226	2,139,140				
Auxillary Enterprises (Museum Stores, Vending, Tours, & Food Services)	3,911,775	3,719,542				
Other	16,625	22,513	255,179	158,994		
Total Revenues	18,999,491	17,597,417	353,888	158,994	(288,591)	2,969,284
Expenses:						
Research & Collections	3,779,600	3,182,384	144,514	193,042		
Public Programs	1,443,757	1,386,576	72,045	181,198		
Finance & Museum Services	6,087,603	5,677,786	5,736	75,098		
Development & External Affairs	1,604,404	1,666,730	46,551	36,325		
Administration	1,602,456	1,616,394	61,317	8,466		
Auxillary Enterprises (Museum stores, Vending, Tours, & Food Services)	3,680,851	2,919,384	741			
Depreciation						
Note Interest & Amortization						
Overhead Costs Charged to Grants	(466,257)	(546,806)				
Total Expenses	17,732,414	15,902,448	330,904	494,129		
Increase (Decrease) In Fund Balance Resulting from Revenues and Expenses	1,267,077	1,694,969	22,984	(335,135)	(288,591)	2,969,284
Fund Balance:						
Beginning of Year	1,330,854	1,305,854	3,311,232	3,433,324	54,709,689	51,968,841
Add (Deduct) Transfers						
Non-Mandatory	(1,059,895)	(213,043)	1,059,895	213,043		
Museum Property Additions	(676,610)	(1,456,926)	(255,719)			
Total Return	494,428		20,199		(499,898)	
Other					540,000	(500,000)
Net Realized Gain on Investments Held						271,564
End of Year	$1,355,854	$1,330,854	$4,158,591	$3,311,232	$54,461,200	$54,709,689

Current Operating Fund, Fund Designated for Special Purposes and Fund Functioning as Endowment are Unrestricted Funds.

Museum Property Fund		Restricted Fund		Endowment Fund		Total All Funds	
1990	1989	1990	1989	1990	1989	1990	1989
						$6,660,554	$5,585,944
		$1,870,680	$1,810,040			2,403,526	2,309,432
$1,518,126	$1,619,832	883,382	869,863			5,473,163	5,799,923
15,901	(489,122)		28,238	($249,823)	$696,139	(1,016,829)	2,601,878
		728,285	949,945	1,196,198	119,972	4,671,804	3,482,602
						557,514	510,634
						2,094,226	2,139,140
						3,911,775	3,719,542
888,928						1,160,732	181,507
2,422,955	**1,130,710**	**3,482,347**	**3,658,086**	**946,375**	**816,111**	**25,916,465**	**26,330,602**
		970,940	926,144			4,895,054	4,301,570
		697,985	800,518			2,213,787	2,368,292
		1,002				6,094,341	5,752,884
		69,595				1,720,550	1,703,055
226,132	188,637	48,004	107,152			1,937,909	1,920,649
			3,253			3,681,592	2,922,637
2,000,083	1,897,308					2,000,083	1,897,308
888,288	883,470					888,288	883,470
		466,257	546,806				
3,114,503	**2,969,415**	**2,253,783**	**2,383,873**			**23,431,604**	**21,749,865**
(691,548)	(1,838,705)	1,228,564	1,274,213	946,375	816,111	2,484,861	4,580,737
46,693,433	45,326,892			17,056,660	15,657,012	123,101,868	117,691,923
1,765,680	2,731,139	(833,351)	(1,274,213)				
		144,787		(159,516)			
		(540,000)			500,000		
	474,107				83,537		829,208
$47,767,565	**$46,693,433**	**$ –**	**$ –**	**$17,843,519**	**$17,056,660**	**$125,586,729**	**$123,101,868**

Special Gifts: Restricted, Capital, and Endowed Funds

Individuals and Family Foundations

$100,000

Gladys N. Anderson Estate
June B. Davis Estate
Mrs. R. Winfield Ellis
Mr. & Mrs. David W. Grainger *(The Grainger Foundation)*
Mr. & Mrs. John H. Leslie *(The Leslie Fund)*
Mr. & Mrs. Oscar G. Mayer *(Oscar G. & Elsa S. Mayer Charitable Trust)*
Arthur Rubloff Estate
Olive M. Shepherd Estate
Mr. & Mrs. Jack C. Staehle
Mrs. Theodore D. Tieken
Lucille R. Wiser Estate
The Women's Board

$10,000 to $99,999

Anonymous
Carolyn S. Akenson Estate
Mrs. P. Kelley Armour
Helen K. Bieker Estate
Mr. & Mrs. Roger O. Brown
Mr. & Mrs. Albert C. Buehler, Jr. *(ACP Foundation)*
Mr. & Mrs. Richard H. Cooper *(Richard H. Cooper Foundation)*
The Crown Family *(Arie & Ida Crown Memorial)*
Dr. & Mrs. Edwin J. DeCosta *(The Walter E. Heller Foundation)*
Mr. & Mrs. Thomas E. Donnelley II *(Thomas E. Donnelley II Foundation)*
Jamee & Marshall Field Foundation
Evelyn Frank Estate
Mr. & Mrs. Paul W. Guenzel
Mr. & Mrs. Charles C. Haffner III
Mrs. Charles L. Hardy *(Elliott & Ann Donnelley Foundation)*
Walter R. Hauschildt Estate
Mr. & Mrs. Laurin H. Healy *(Winona Corporation)*
Mrs. Beatrice C. Mayer
Mr. & Mrs. Brooks McCormick *(Brooks & Hope B. McCormick Foundation)*
Philip M. McKenna Foundation, Inc.
Mr. & Mrs. Kenneth F. Montgomery
Dessie P. Morrow Estate
Mrs. Arthur T. Moulding
Harry G. Nelson
Mr. & Mrs. Samuel R. Rosenthal *(D & R Fund)*
Norman J. Schlossman Estate
The Seabury Foundation
Edward Byron Smith *(Edward Byron Smith Charitable Fund)*
Gretchen Stewart Estate
Mr. & Mrs. Howard J. Trienens *(Howard J. & Paula M. Trienens Foundation)*
Chester D. Tripp Estate
Jane B. Tripp Estate
Mr. & Mrs. Blaine J. Yarrington *(The Chicago Community Trust)*

$1,000 to $9,999

Anonymous
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Mr. & Mrs. A. Watson Armour III
Cynthia Armour
Mrs. Lester Armour
Mr. & Mrs. T. Stanton Armour
Vernon Armour
Mr.* & Mrs. Edwin N. Asmann *(O. Paul Decker Memorial Foundation)*
Abby K. Babcock Estate
Kristina Barr *(Kristina Barr & George Barr Foundation)*
Mr. & Mrs. Robert O. Bass
Mr. & Mrs. Peter B. Bedford
Louis Bein Estate
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Mr. & Mrs. Harrington Bischof
Mr. & Mrs. Philip D. Block III *(J. B. Charitable Trust)*
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Mrs. G. E. Boone
Mrs. Arthur S. Bowes
Mr. & Mrs. Willard L. Boyd
Helen D. Bronson
Mr. & Mrs. Donald J. Cameron
Mr. & Mrs. Worley H. Clark, Jr.
Mr. & Mrs. Frank W. Considine
Mr. & Mrs. Donald C. Cottrell, Jr.
John R. Covington *(Howard L. Willett Foundation, Inc.)*
Mrs. William S. Covington*
Elizabeth M. Covington Estate
Mr. & Mrs. William S. Cowles
A. G. Cox Charity Trust
Mr. & Mrs. Mark Crane
Mr. & Mrs. John V. Crowe
Mr. & Mrs. Robert L. Cruikshank
Mrs. Suzette Morton Davidson
Mrs. Charles S. DeLong*
Mr. & Mrs. Howard M. Dean, Jr.
Mr. & Mrs. Robert O. Delaney
Mr. & Mrs. Gaylord Donnelley
Mr. & Mrs. James R. Donnelley *(Nina H. & James R. Donnelley Foundation)*
Elling O. Eide
Mr. & Mrs. Gordon R. Ewing
Mr. & Mrs. Thomas J. Eyerman
William F. Farley *(William F. Farley Foundation)*
Mary & Bruce Feay
Mr. & Mrs. Reuben Feinberg *(Joseph & Bessie Feinberg Foundation)*
Mr. & Mrs. Marshall Field
Mr. & Mrs. Charles Robert Foltz
Mr. & Mrs. Peter B. Foreman *(Peter & Virginia Foreman Foundation/Peroke Foundation)*
Robin Foster
Mr.* & Mrs. Gaylord Freeman
Mr. & Mrs. Marshall B. Front
Josephine D. Galitzine Estate
Mr. & Mrs. Gerald S. Gidwitz
Elizabeth L. Girardi
Mr. & Mrs. William B. Graham *(William B. Graham Foundation, Inc.)*
William M. Hales *(Hales Charitable Fund)*
Mr. & Mrs. Corwith Hamill *(Happy Hollow Fund)*
Mr. & Mrs. King W. Harris *(Harris Family Foundation)*
Mr. & Mrs. Charles C. Harrold III
Mr. & Mrs. Robert S. Hartman
Mr. & Mrs. Ben W. Heineman
H. John Heinz III Trust
Philip Hershkovitz
Mr. & Mrs. Rembrandt C. Hiller, Jr.
Elizabeth Hoffman
Mrs. Harold James *(The Butz Foundation)*
William B. Jeffries
Mr. & Mrs. Clarence E. Johnson *(The Clarence E. & Shirley M. Johnson Foundation)*
Mr. & Mrs. Curtis S. Johnson III
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Mr. & Mrs. Richard M. Jones
Mr. & Mrs. Harvey E. Kapnick, Jr. *(The Kapnick Foundation)*
Mr. & Mrs. John J. Kinsella
Mr. & Mrs. Robert D. Kolar
Mrs. Arthur H. Krausman
Mrs. Bertram D. Kribben
Mrs. John Woodworth Leslie

** Deceased*

Spring Systematics Symposia

Each year the Museum sponsors an interdisciplinary symposium on topics bearing on problems in systematics research. Organized by Matthew H. Nitecki, curator of fossil invertebrates, Department of Geology, these symposia have been supported by the National Science Foundation. The 13th annual symposium in 1990 was concerned with the understanding and meaning of ethical judgment and the relation between ethics and evolution.

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Mr. & Mrs. Robert H. Malott
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Dr. & Mrs. Richard E. Marcus
Mr. & Mrs. Edward Matz, Jr.
Cirilo McSween
Mr. & Mrs. William J. McDonough
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Winnetka Garden Club
Mrs. J. Howard Wood
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$100 TO $999

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Alicia Ann Adams
Mrs. Keene H. Addington
Mr. & Mrs. Joseph Adlesick
Katharine D. Agar
Janet Agranoff
Mr. & Mrs. Edward K. Aldworth
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Sandra K. Anderson
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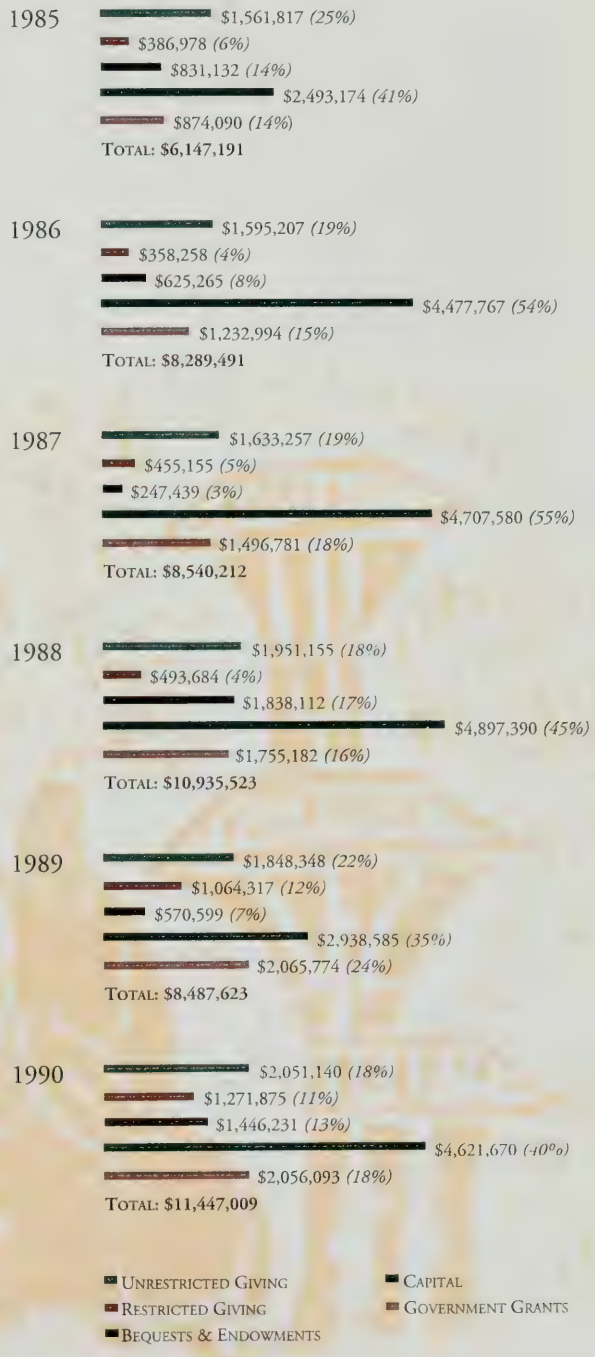
Thomas W. Andrews
Mr. & Mrs. Lester J. Anixter
Mr. & Mrs. Bennett Archambault
Mr. & Mrs. Angelo R. Arena
Dr. & Mrs. David Ashbach

**Deceased*

Total Gifts, Bequests, and Grants



Scientific Illustration

Four Field Museum artists produce illustrations of specimens and artifacts to supplement the research of the curatorial staff. They employ a broad range of techniques, but each has refined a particular style: Zbigniew Jastrzebski specializes in pencil or pen and ink stipple renderings of skeletal structures and reconstruction of pottery; Clara Richardson-Simpson in line and stipple representations of zoological and paleontological specimens; Marlene Werner in using carbon dust and scratch board techniques; and Zoriça Dabich in crow quill drawings of botanical subjects and water color paintings of South American monkeys.

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Charles A. Davis
Mr. & Mrs. Marvin Davis
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Ruth M. A. Denn
Mr. & Mrs. Charles Dennehy
Mr. & Mrs. Jack Der Kacy
Amy T. Dickinson
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Paul Dickman
Michael O. Dillon
Mr. & Mrs. William S. Dillon
Rocco A. Dimeo
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Patricia Dodson
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Ron Dorfman
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Dr. & Mrs. Gerald Dusza
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Edith H. Falk
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Dr. & Mrs. Robert H. Foulkes
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Unrestricted Giving

Note: This chart details the "Unrestricted Giving" column shown in the "Total Gifts, Bequests, and Grants" chart on Page 25.

In The Field

The Museum's new membership publication, In the Field: The Bulletin of the Field Museum of Natural History, *premiered in July 1990 with news of the discovery by Field Museum researchers in Madagascar of a living population of red-tailed Newtonia (above), a bird long thought to be extinct. The bimonthly newspaper features articles by curators and others on the Museum's research activities and public programs, and highlights events of interest to members.*

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Membership

Three members won trips to Hawaii and another a trip to New Zealand in raffles during the three-night members' previews of "Traveling the Pacific" (November 1989) and "Pacific Spirits" (November 1990). A special program featuring talks by Pacific exhibit developers in August 1989 drew more than 1,000 members

Attendance

The New Explorers

The Museum's Education Department, working with a group of Chicago teachers, the University of Chicago Lab School, and Argonne National Laboratory, developed a curriculum for fourth- to eighth-graders to accompany the "Islands in the Jungle" episode of The New Explorers, the PBS television series produced by Museum trustee Bill Kurtis. The series aims to teach science and to interest students in scientific careers by personalizing scientific adventure and discovery. ("Islands" features the work of Field Museum researchers in Peru.) The Museum is the repository for tapes of the series, which are available for loan to teachers along with teaching materials and hands-on activities for students. Amoco Corp. and Waste Management, Inc. have helped subsidize a national marketing campaign for the teaching materials. A second year of the series is in production, and the Museum is again participating in curriculum development.

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Sustaining Benefactors are individuals, foundations, and corporations whose cumulative contributions total $1,000,000 or more. During 1989 and 1990, the following individuals were formally recognized as Sustaining Benefactors for their exceptional generosity: Mr. and Mrs. Jack C. Staehle and Mr. and Mrs. Theodore D. Tiecken. (Theodore D. Tieken passed away on January 24, 1990.

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Waste Management

Geology Labs

An $800,000 renovation of the Museum's paleontological research facilities has begun that will revamp some 6,700 square feet of laboratory space. Among the areas marked for improvement are the geomagnetics laboratory, the fossil and rock preparation facilities, and the image-analysis laboratory. The work is supported by a $375,000 grant from the National Science Foundation and a $200,000 commitment from the Arie and Ida Crown Memorial.

Unrestricted Gifts

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$5,000 and Above

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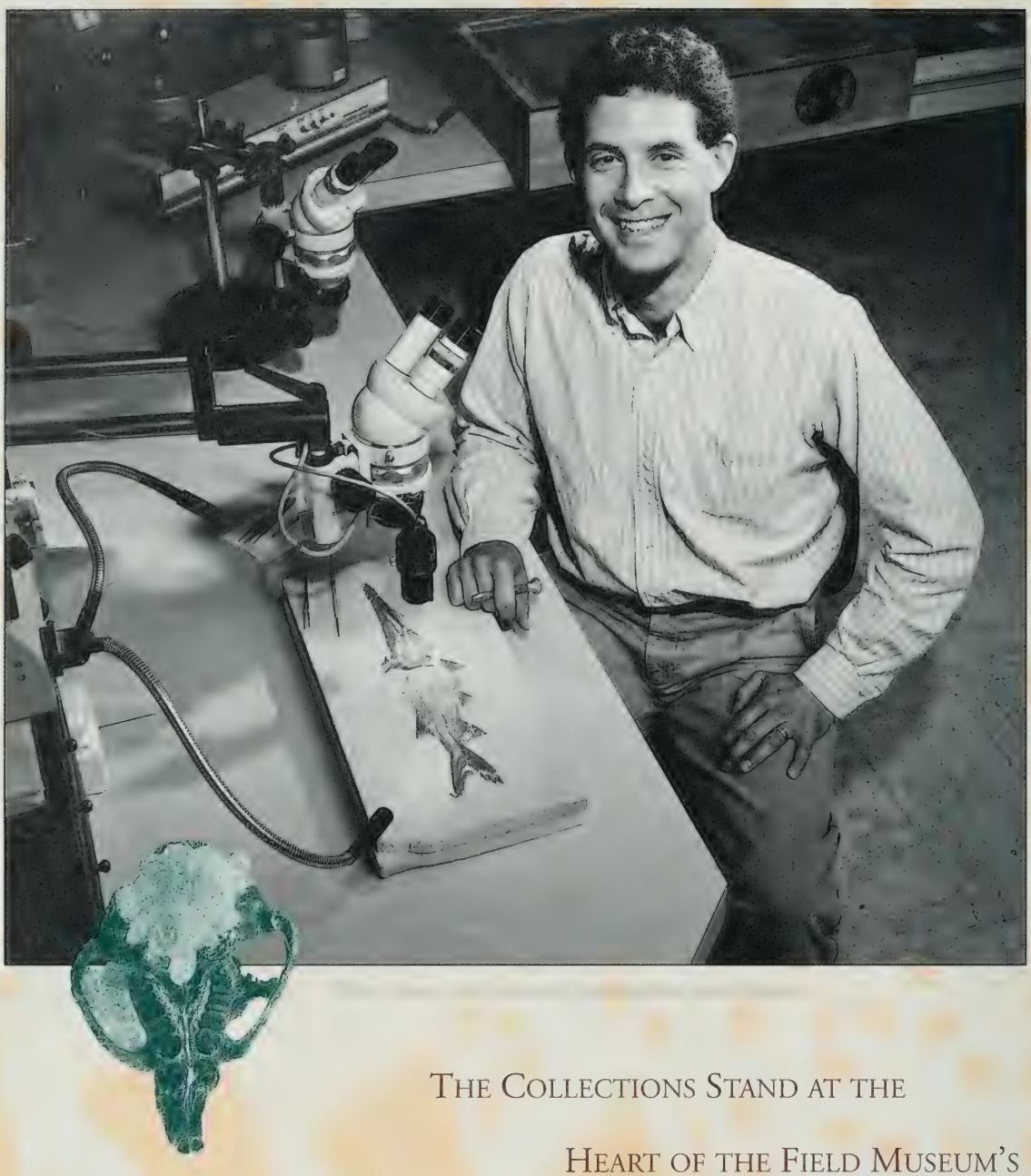

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nn , Department of Geology, during recent excavation in the Chilean
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The Museum's international reputation for high-quality fossil preparation was enhanced in 1990 with the successful casting of a 135-million-year-old fossil bird discovered in northeastern China, the oldest known modern bird. The fossil, embedded in cross-sections on either face of a fractured piece of rock, had defied conventional means of preparation. William Simpson, pictured opposite, used an acid solution to dissolve the bones, leaving a natural mold in the rock. A sprayed-on latex "peel" of the mold was used to create another mold in silicone rubber, from which durable epoxy casts were made.

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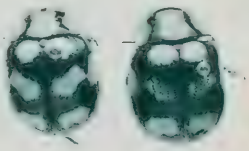

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Understanding and Respect For the Diversity Of Human Cultures

The Field Museum is preparing a major permanent exhibit on the natural history and human cultures of Africa. It already has a major permanent exhibit on ancient Egypt.

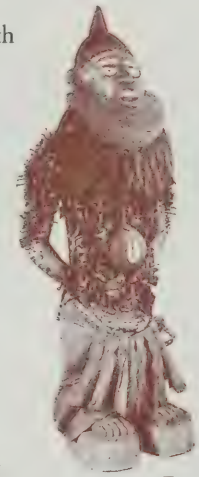
QUESTION: Will this juxtaposition say to visitors that Pharaonic Egypt was somehow not an African civilization? What if anything should the Africa exhibit say about Egypt in the 2,000 years since Cleopatra?

QUESTION: If emphasis is placed in the new exhibit on the need to preserve the natural habitats of Africa's unique animals — the elephants, giraffes, hippos, apes, etc. — will this devalue the struggle to develop the continent's resources for its people?

QUESTION: If the display of "palace" art from Benin notes that the Medici collected the work of these artists, does that imply that "tribal" ceremonial and decorative artifacts are not of comparable artistic significance? Speaking of tribes — which, in fact, the exhibit will not do — if the exhibit is to have ethnographic depictions of African cultures, should they include the "white tribes" of Kenya, Zimbabwe, and South Africa along with such communities as the Zulu, Shona, and Masai?

These are ethical and political as well as intellectual and aesthetic questions — there are many more just as complex — and the Museum's response to them requires thoughtfulness and sensitivity. Politics and ethics are implicated because of what one scholar calls "the politics of representation" — there are living people whose lives and societies will be affected by the images and ideas about Africa that the Museum's exhibit imparts to American popular culture. Moreover, images of Africa subtly influence both the self-image of African-Americans and the ways in which Americans of other races interact with them.

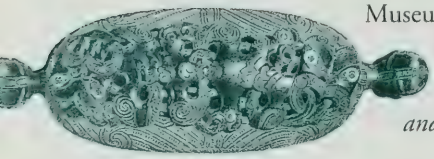
Such considerations arise not only in the context of the Africa exhibit, but in many areas of Museum activity. The issue of the propriety of certain kinds of displays, e.g., of



Pajama Parties

Museum Overnight programs have proved phenomenally popular with the public. Since July, 1990 they have been scheduled almost monthly by the Museum's Education Department. On a typical Overnight, 250 to 300 persons camp out in the exhibit halls. Each evening is programmed with a different theme and participants attend workshops, performances, and other events while seeing the exhibits in a different light. Overnights have been held for families, educators, and community youth groups.

religious items not meant to be seen by non-initiates, comes up from time to time. The policy that guides the Museum in these matters is one of *cultural understanding and mutual respect* — a respect for the internal validity of every human culture; the idea that, while uniquely the product of a certain kind of Western culture, the Museum should be a bridge between the West and others; a sense of the Museum's responsibility to those whose cultures are respresented in its collections and exhibits, as well as to the diverse people of its home community.



Putting Gossamer on Display

Many of the objects in the Museum's Pacific collections are made of materials as fine as spider web and beetles' wings. They were not made to last, yet some have been in the Museum 80 years or more. Before such objects could be displayed in the "Pacific Spirits" exhibit, the staff of the Division of Conservation had to ensure that they would survive the exposure — a complex task requiring object-by-object treatment. Some objects incorporating plant materials were stabilized with methylcellulose, and a large broken leaf was repaired with Japanese tissue and wheat starch paste; both substances can later be removed if necessary. Even the lighting in the exhibit was set to protect the artifacts.

In putting together the Museum's permanent exhibit on the Pacific, for example, the developer, Phyllis Rabineau, consulted with the directors of the national museums in Tahiti, Papua New Guinea, the Marshall Islands, and Vanuatu. Among other things, these discussions helped the developers avoid giving the impression that Pacific cultures are frozen in time, despite the fact that the Museum's collections largely represent the first two decades of this century.

The director of the Alele Museum in the Marshalls urged Rabineau to use a contemporary working outrigger canoe in the exhibit, with all the additions and modern materials that contemporary Marshallese have substituted for "traditional" design and construction; the resulting display, says Rabineau, "has an integrity that a reconstruction or a restored 19th-century piece would not have." Marshallese also created all the roof-thatching used in the exhibit.

Exhibition of human remains is another extremely delicate subject, and here too Rabineau's consultations proved valuable. The director of the National Museum of Papua New Guinea advised that it would be inappropriate to display the skulls — trophies of headhunting — that would normally have been in the windows of a Iatmul men's house such as was planned for the exhibit. On the other hand, the director of the Vanuatu Cultural Center saw no problem with

the display of a rambaramp — a memorial figure that incorporates the skull of a respected member of the community — so long as it was placed high enough that no woman could look down on it. (In "Pacific Spirits," the rambaramp stands so tall that all visitors of both sexes must look up to it.)

Jonathan Haas, the Museum's vice president for collections and research, has been consulting with Native American groups for what he says is "a first start in reorganizing the Native American exhibits and a first start on a new dialogue with Native American peoples." Representatives of the Hopi, Blackfeet, Blood, and Iroquois have been to the Museum recently to review materials related to their communities "and give us counsel on the appropriateness of the exhibits and the treatment of the collections," says Haas, who along with President Willard L. Boyd was very much involved in the discussions among museum professionals, Native American leaders, and members of Congress that led in 1990 to passage of the Native American Graves Protection and Repatriation Act. (All human remains have been taken off exhibit in the Native American halls.)

The sensibilities of Native Americans and of women visitors to the Museum were at issue in the case of the "Sacrifice to Morning Star" segment of the Pawnee exhibit. A diorama shows a human sacrifice, specified as requiring a female victim kidnaped from a neighboring tribe. A visitor from Ohio, Ann Throckmorton, was appalled by what she felt was a racist and sexist portrayal of violence against women, and wrote a letter to that effect demanding that the diorama be removed. Michael Spock, vice president for public programs, decided to display Ms. Throckmorton's letter and to solicit comments from other visitors. Some 4,500 visitors replied, most to the effect that "You can't rewrite history" or that depictions of differing cultural norms were the essence of anthropological exhibits in museums. The Pawnee Tribal Council, for its part,

News Around the World

News of the Field Museum is reaching diverse audiences around the world. Through the Public Relations Department, nearly 7,000 print and broadcast media stories were generated in more than 111 foreign countries plus 26 states and 100 cities in the United States in 1989 and 1990. Highlights were major stories in The New York Times, *Town and Country, CNN, Japan television, and the Canadian Broadcast Company.*

said that "though we are not proud of it, it is our history and should stay on view." As a result of the controversy, however, several errors were corrected — the sacrifice should have been facing east, not west; women as well as men participated in the ceremony, etc. It was also apparent that the exhibit labels were inadequate, and these were expanded to give greater context for the ceremony.

Temporary exhibits and the Museum's education department also emphasize cultural understanding and respect, from weekend musical offerings to the long-term Outreach Program that takes museum-based cross-cultural programming to eight AfricanAmerican, Hispanic, and Asian Chicago neighborhoods where surveys indicate few people ever attend museums. The annual Neighbors Night brings thousands of residents of these neighborhoods to the Museum, where they can sample not only the "fun" parts of each other's cultures — music, food, dance, etc. — but the wider and deeper perspectives on the world that the Museum's collections and exhibits offer. For both school and family groups, the education department also produces annual festivals celebrating Hispanic-American and African-American heritages.

For more than two decades, the education department and the Chicago Public Schools' office for gifted students have conducted the Field Museum Honors Science Program, a museology course for high-school students that has always enrolled students from varied ethnic backgrounds. In 1990, for the first time, the department began a similar course for gifted junior-high students who have not yet mastered English; these students have prepared an exhibit on Mexican and Mexican-American Day of the Dead observances that will be mounted in the Webber Resource Center in the fall of 1991.

Ford City

The Museum's first satellite store opened in November, 1990 in the lower-level arcade of the Ford City shopping mall south of Midway Airport. The 2,200-square-foot store offers books, toys, clothing, jewelry, and art from many cultures and programs a variety of educational and cultural events throughout the year. Ford City is Chicago's largest mall and serves the most diverse clientele.

Stamped designs include, [illegible] ckground, a symbol of fthe power of God

The new exhibit on Africa will include material on the African diaspora in the Americas, making direct the link — via the slave trade — between Chicago's largest ethnic community and the social and political history of Africa.

Early on, the Africa Project staff held a series of community forums to discover what people wanted or needed to know and to discover community resources that might feed into the project. One of the reasons for choosing to do an exhibit on Africa rather than on, say, Asia or Latin America, according to Michael Spock, was the importance of the black community in Chicago and the fact that, other than school groups, the Museum drew relatively few black visitors. By creating an innovative exhibit through an innovative process, the Museum could speak to that community through its collections, and the black community could speak to the larger society through the Museum.

The project staff has developed cooperative relationships with Chicago's DuSable Museum of African-American History and with two museums in Africa. Africable, a 13-week cable-television phone-in program produced by the project team, introduced Chicagoans to African nationals and emigrés living in the area.

Thirty fifth-graders of all races from city and suburban schools were enlisted in 1988 in a five-year museology program, "Learning About People and Museums"; they have produced a mini-exhibit on common misconceptions about Africa and, with their questions and responses, have helped the project staff to refine exhibit concepts. The students, as tenth-graders, will become docents when the exhibit opens in 1993. They have learned a good bit about Africa, a great deal about life and work in a great museum, and most of all about each other. "Cultural understanding and mutual respect" has become part of their culture.❖

[illegible] the [illegible] Animal Resource Center

Volunteers in Field Museum

Science and Education:

Four Hundred Very Bright Points of Light

[illegible] native to the Atlantic foothills and lowlands from central [illegible] white plumage offers camouflage against predators in [illegible] northern habitats. Both creatures will be on display in "Into the Wild."

Nearly 400 volunteers devote time regularly to the Museum, working as unpaid part-time staff. Each year, they contribute the equivalent of 22 full-time positions which, if salaried, would cost more than $500,000.

Volunteers perform critical services throughout the Museum, but perhaps none have done work so difficult, or so rewarding, as those who staffed the traveling exhibit "Remember the Children" in the winter and spring of 1990. The exhibit examined the horrors of the Nazi extermination camps through the eyes of the 1.5 million children — Jewish, Gypsy, retarded, or physically handicapped — who were murdered in them from 1933 to 1945.

Half the 50 volunteers who served as exhibit guides were "Eyewitnesses," people who had survived the camps or were children of survivors or members of the liberating armies. These volunteers were able to sit down with visitors, especially children, and bring to life an almost incomprehensibly vile period of history.

Other volunteers were trained to move through the exhibit, answer questions from children and adults, deal with sensitive issues and situations, and help children assimilate the experience, trying to show how even simple schoolyard bullying and stereotyping can contribute to institutionalized discrimination and violence.

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Photo Restoration

Among the Museum's collection of half a million photographs are some 20,000, dating from 1920 to 1950, that were taken using nitrate-based film before it was known that such film was chemically unstable. In 1989 Nina Cummings, photo researcher in the Department of Photography, and an outside contractor, the Chicago Albumen Works, began a two-year project, funded by the National Endowment for the Humanities, to restore and conserve this portion of the collection. Photo collections that have been saved include Malvina Hoffman's round-the-world studies for her epic sculpture project, "The Races of Man," and Anne Fisher's portraits, landscapes, and architectural photos of Iraq in 1928.

Background: Housefront in Kano, Nigeria, from a photo taken during the Strauss West African Expedition of 1934. Above, right: Tang Dynasty (618–907 A.D.) mortuary figure of a woman playing polo. Both photos were among those saved in the Museum's preservation project.

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New photographs of artifacts and specimens were taken for this project by John Weinstein, the Museum's head photographer.

Special thanks to Nina Cummings and the photography staff — Mark Alvey, James Balodimas, Linda Dorman, and Diane Alexander White — for their help in coordinating and reproducing images for this report.

The following individuals also deserve recognition for their efforts on this project: Paul Baker, Joe Cajandig, Carol Carlson, Steve Crescenzo, John Ditzel, William Grewe-Mullins, Christine Gross, Gregory M. Mueller, Rodger Patience, William Simpson, Charles Stanish, Kevin Swagel, Tom Wagner, Ben Williams.

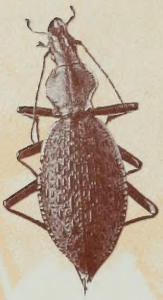
This report printed on recycled paper with soy bean inks.

ON THE COVER

Background: Members of the Field Museum and their families during Members' Night, 1991.

Front cover, top right, is a fossil sting ray, 49 million years old, collected by Lance Grande in the Green River area of Wyoming; center left is the fruit of Anona glabra, *a member of the custard apple family, collected in 1983 by R.G. Stolze along the banks of the Sebastian River in Florida; below is an ornament of office (a staff with silver fish and Peruvian coins) worn by elected leaders of Aymara Indian communities in Peru, collected by Charles Stanish in 1990.*

Back cover, upper left is a Chinese ground beetle, Carabus lafossei giganteus, *a rare species often found in Chinese apothecary shops for use in traditional medicine ; below is a multicolored beaded bandolier bag, probably Seminole, ca. 1840, of unusual design, including the human figure on the flap.*



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